



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Tischler und Sohn (USA) Ltd.**

**Six Suburban Avenue**

**Stamford, CT 06901**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "Direct Glazed Impact" Wood Fixed Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 1514, titled "Series Direct Glazed Fixed Impact Window", sheets 01 through 06 of 06, dated 01/14/07 with revision "A1" dated 10/25/11, prepared by W. W. Schaefer Engineering & Consultant, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Wedel (Schleswig-Holstein), Germany, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 12-0906.03 and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
*6/26/14*

NOA No. 14-0428.45  
Expiration Date: December 27, 2017  
Approval Date: July 03, 2014  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under previous NOA No. 07-0829.12)*
2. Drawing No. 1514, titled "Series Direct Glazed Fixed Impact Window", sheets 1 through 6 of 6, dated 01/14/07 with revision "A1" dated 10/25/11, prepared by W. W. Schaefer Engineering & Consultant, P. A., signed and sealed by Warren W. Schaefer, P. E.  
*(Submitted under previous NOA No. 07-0829.12)*

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94along with marked-up drawings and installation diagram of Wood Fixed Window, prepared by Architectural Testing, Inc., Test Reports No.'s ATI-72691.01-109-18 and ATI-72472.01-109-18, dated 06/26 and 07/03/07, all signed and sealed by Michael D. Stremmel, P. E.  
*(Submitted under previous NOA No. 07-0829.12)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by W. W. Schaefer Engineering & Consultant, P. A., dated 06/11/07, signed and sealed by Warren W. Schaefer, P. E.  
*(Submitted under previous NOA No. 07-0829.12)*
2. Glazing complies with ASTM E1300-98/ 04/ 09

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. 12-1231.10 issued to Eastman Chemical Company (MA) for their "Saflex Clear and Color Glass Interlayers" dated 03/28/13, expiring on 05/21/16.
2. Notice of Acceptance No. 12-1231.08 issued to Eastman Chemical Company (MA) for their "Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 03/28/13, expiring on 12/11/18.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 14-0428.15  
Expiration Date: December 27, 2017  
Approval Date: July 03, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of conformance, no financial interest and compliance with **FBC 5<sup>th</sup> Edition (2014)**, issued by W. W. Schaefer Engineering & Consultant, P. A., dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of conformance, no financial interest and compliance with **FBC 2010**, issued by W. W. Schaefer Engineering & Consultant, P. A., dated 10/27/11, signed and sealed by Warren W. Schaefer, P. E.  
*(Submitted under previous NOA No. 11-1101.07)*
3. Statement letter of independence, issued by W. W. Schaefer Engineering & Consultant, P. A., dated 10/24/11, signed and sealed by Warren W. Schaefer, P. E.  
*(Submitted under previous NOA No. 11-1101.07)*
4. Distributor Agreement between Tischler und Sohn (USA), Ltd., Connecticut, USA, and Tischler/ Cornelius Korn, G.m.b.H., Wedel (Schleswig-Holstein), Germany, dated 04/13/09, signed by Tim Carpenter and Wilhelm Korn, respectively.  
*(Submitted under previous NOA No. 11-1101.07)*
5. Laboratory compliance letters for Test Reports No.'s **ATI-72691.01-109-18** and **ATI-72472.01-109-18**, issued by Architectural Testing, Inc., dated 06/26 and 07/03/07, all signed and sealed by Michael D. Stremmel, P. E.  
*(Submitted under previous NOA No. 07-0829.12)*

**G. OTHERS**

1. Notice of Acceptance No. **12-0906.03**, issued to Tischler und Sohn (USA), Ltd. for their Series "Direct Glazed Impact Wood Fixed Window - L.M.I.", approved on 12/06/12 and expiring on 12/27/17.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 14-0428.15  
Expiration Date: December 27, 2017  
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# CORNER CONSTRUCTION

RECTANGULAR JAMB CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
 ARCHED JAMB CORNERS: ARCHED FRAME BUTTED TO FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.  
 HALF ROUND JAMB CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.

# PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No

Expiration Date

By *Warren W. Schaefer*  
 Miami Dade Product Control

14-0428.15  
 12/27/2017

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.  
 CHECKED BY: W.W.S.  
 PLOT: 1=16  
 DATE: 1/24/07

ANCHOR SPACING (ALL SIDES OF WINDOW)		
JOB REQUIRED DESIGN PRESSURE	WINDOW FRAME SHORT DIMENSION	MAXIMUM ALLOWABLE ANCHOR SPACING
70 PSF & LESS	OVER 48"	12"
	48" & LESS	18"
OVER 70 PSF	UP TO 72"	12"

FRAME ANCHOR REQUIREMENTS TABLE				
OPENING TYPE (SUBSTRATE)	FRAME/CLIP/BACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST	
FRAME SHEAR SCREWS				
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"	
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	
INSTALLATION CLIP SCREWS				
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 X 1 1/2" SMS	1 3/8"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"	
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	
BTI BRACKET & ANGLE CLIP SCREWS				
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 1/8"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"	
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).				
(2) ALL SELF TAP/DRILLING SCREWS SHALL BE MIN. GR. 5				

ALLOWABLE SINGLE WINDOW DESIGN PRESSURE						
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF UNLESS SHOWN OTHERWISE)				
		GLASS OPTION 1	GLASS OPTION 2 POSITIVE	GLASS OPTION 2 NEGATIVE	GLASS OPTION 3	GLASS OPTION 4
144	60	70.0	70.0	70.0	70.0	70.0
	40	70.0	70.0	85.0	70.0	70.0
	36	70.0	70.0	85.0	70.0	70.0
	32	70.0	70.0	85.0	70.0	70.0
132	65	70.0	70.0	70.0	70.0	70.0
	43	70.0	70.0	85.0	70.0	70.0
	39	70.0	70.0	85.0	70.0	70.0
	35	70.0	70.0	85.0	70.0	70.0
120	72	70.0	70.0	70.0	70.0	70.0
	48	70.0	70.0	85.0	70.0	70.0
	43	70.0	70.0	85.0	70.0	70.0
	38	70.0	70.0	85.0	70.0	70.0
108	72	70.0	70.0	70.0	70.0	70.0
	53	67.8	70.0	85.0	70.0	70.0
	48	70.0	70.0	85.0	70.0	66.0
	42	70.0	70.0	85.0	70.0	70.0
96	72	70.0	70.0	70.0	70.0	70.0
	60	67.7	70.0	85.0	70.0	70.0
	54	70.0	70.0	85.0	70.0	68.1
	48	70.0	70.0	85.0	70.0	67.3
84	46	70.0	70.0	85.0	70.0	70.0
	72	70.0	70.0	70.0	70.0	70.0
	68	70.0	70.0	85.0	70.0	70.0
	61	70.0	70.0	85.0	70.0	70.0
78	54	70.0	70.0	85.0	70.0	70.0
	72	70.0	70.0	85.0	70.0	70.0
	66	70.0	70.0	85.0	70.0	70.0
	59	70.0	70.0	85.0	70.0	70.0
72	72	70.0	70.0	85.0	70.0	70.0
	64	70.0	70.0	85.0	70.0	70.0
	66	70.0	70.0	85.0	70.0	70.0
	66	70.0	70.0	85.0	70.0	70.0

# NOTES:

- SEE GLAZING DETAILS FOR GLAZING OPTIONS
- CROSSED OUT BOXES DESIGNATE SIZES NOT ACCEPTABLE FOR THE RESPECTIVE GLASS OPTION.

# PRODUCT RENEWED

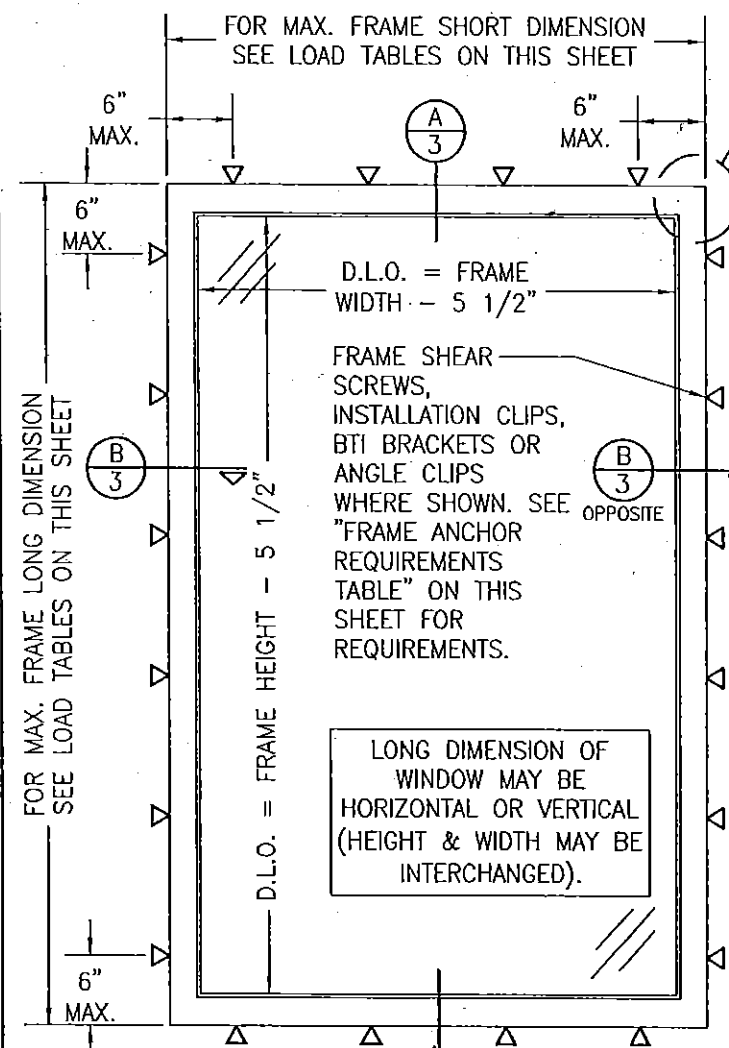
as complying with the Florida

Building Code

Acceptance No 12-0906.03

Expiration Date Dec. 27, 2017

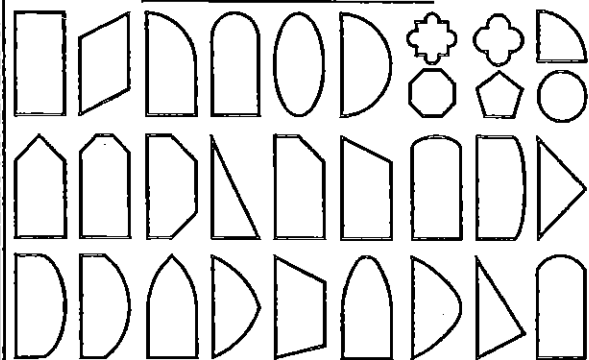
By *Warren W. Schaefer*  
 Miami Dade Product Control



EXTERIOR ELEVATION: SINGLE WINDOW  
 SCALE: N.T.S.

RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

# APPROVED SHAPES



# NOTES:

- OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED ON THIS SHEET.
- ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

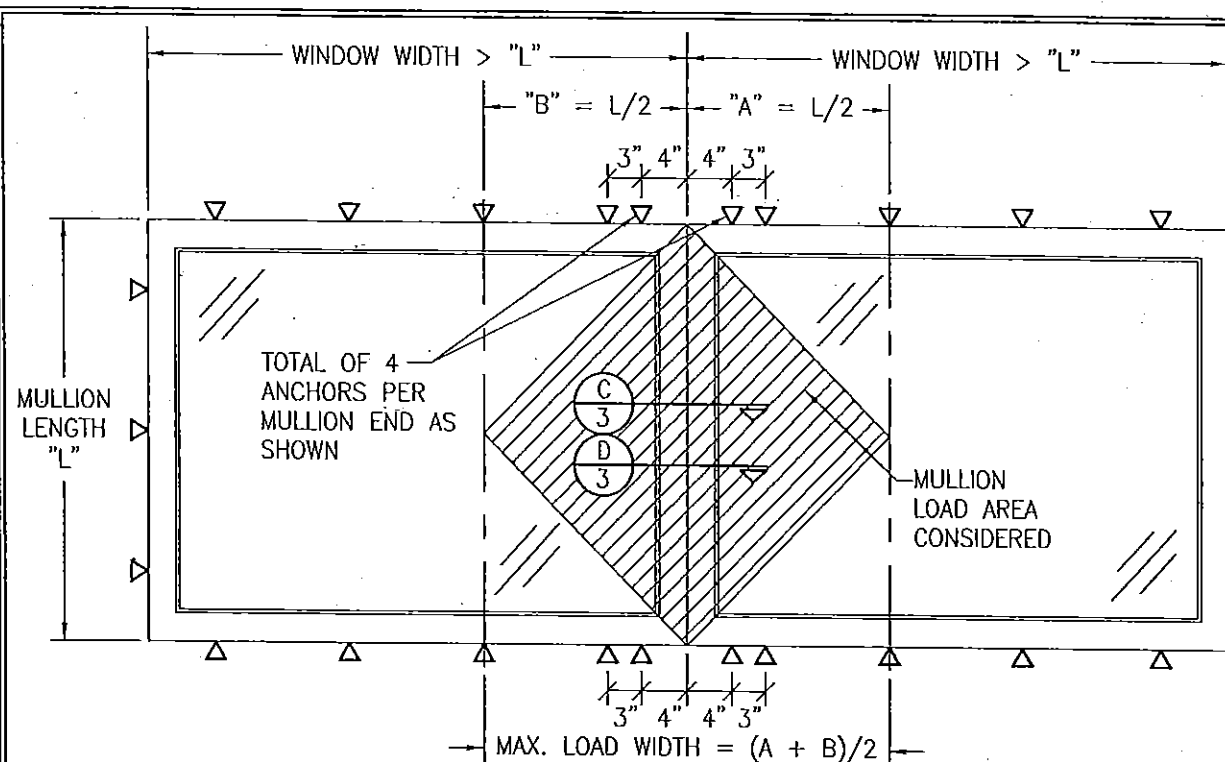
# GENERAL NOTES:

- THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
- THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
- ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
- DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED PER THE ASCE-7 STANDARD.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
- ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

# DIRECT GLAZED FIXED IMPACT WINDOW

CONSULTANTS  
 W. W. SCHAEFER ENGINEERING  
 & CONSULTING, P.A. (CA 6809)  
 7480 150TH COURT NORTH  
 PALM BEACH GARDENS, FL 33418  
 PHONE: 561-744-3424

DRAWING NO. 1514  
 REV. A  
 SHEET NO. 1 OF 6



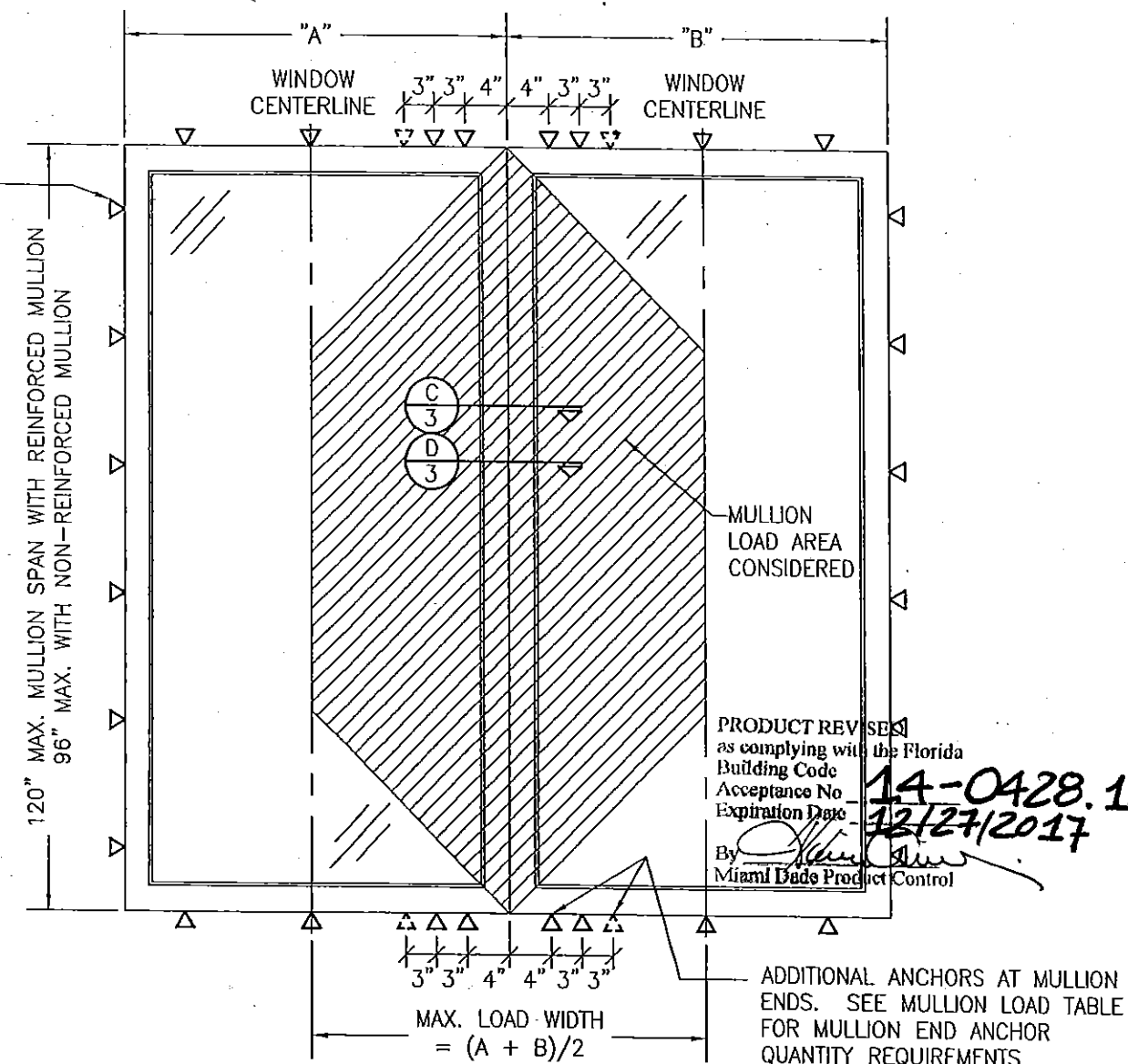
**FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS  
ARE GREATER THAN THE MULLION LENGTH**  
(SEE MULLION LOAD TABLE)

SEE SINGLE WINDOW ELEVATION FOR WINDOW DETAIL NOT SHOWN

MULLION ALLOWABLE LOAD TABLE									
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF)			MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF)		
		NON-REINFORCED	REINFORCED				NON-REINFORCED	REINFORCED	
		4 OR 6 END ANCHORS	4 END ANCHORS	6 END ANCHORS			4 END ANCHORS	4 END ANCHORS	6 END ANCHORS
120	72	N/A	40.4	50.0	84	72	37.0	70.7	85.0
	66	N/A	42.5	53.5		66	38.3	72.6	85.0
	60	N/A	45.2	57.9		60	40.4	75.4	85.0
	54	N/A	48.6	63.3		54	43.2	79.3	85.0
	48	N/A	53.0	70.0		48	47.0	84.8	85.0
	42	N/A	58.7	77.6		42	52.4	85.0	85.0
	36	N/A	66.5	85.0		36	59.7	85.0	85.0
	30	N/A	77.5	85.0		30	70.3	85.0	85.0
108	24	N/A	85.0	85.0	72	24	85.0	85.0	85.0
	72	N/A	47.1	62.2		72	56.9	85.0	85.0
	66	N/A	49.3	65.2		66	57.6	85.0	85.0
	60	N/A	52.2	68.9		60	59.3	85.0	85.0
	54	N/A	55.8	73.7		54	62.4	85.0	85.0
	48	N/A	60.6	80.0		48	66.9	85.0	85.0
	42	N/A	66.8	85.0		42	73.4	85.0	85.0
	36	N/A	75.4	85.0		36	83.3	85.0	85.0
96	30	N/A	85.0	85.0	66	30	85.0	85.0	85.0
	72	26.3	56.5	74.7		66	73.8	85.0	85.0
	66	27.7	58.7	77.6		60	75.0	85.0	85.0
	60	29.4	61.7	81.5		54	77.5	85.0	85.0
	54	31.9	65.5	85.0		48	82.4	85.0	85.0
	48	35.1	70.7	85.0		42	85.0	85.0	85.0
	42	39.3	77.5	85.0	60	60	85.0	85.0	85.0
	36	45.0	85.0	85.0					
	30	53.1	85.0	85.0					
	24	65.4	85.0	85.0					
	18	85.0	85.0	85.0					
LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.									

LESSER OF THE PRESSURE SHOWN IN THIS TABLE &  
THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL  
CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.

SEE SINGLE  
WINDOW  
ELEVATION FOR  
FRAME ANCHOR  
REQUIREMENTS



**FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS  
ARE LESS THAN OR EQUAL TO THE MULLION LENGTH**  
(SEE MULLION LOAD TABLE)

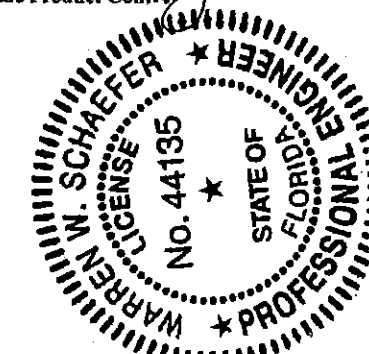
SCALE: N.T.S.

SEE SINGLE WINDOW ELEVATION FOR WINDOW DETAIL NOT SHOWN

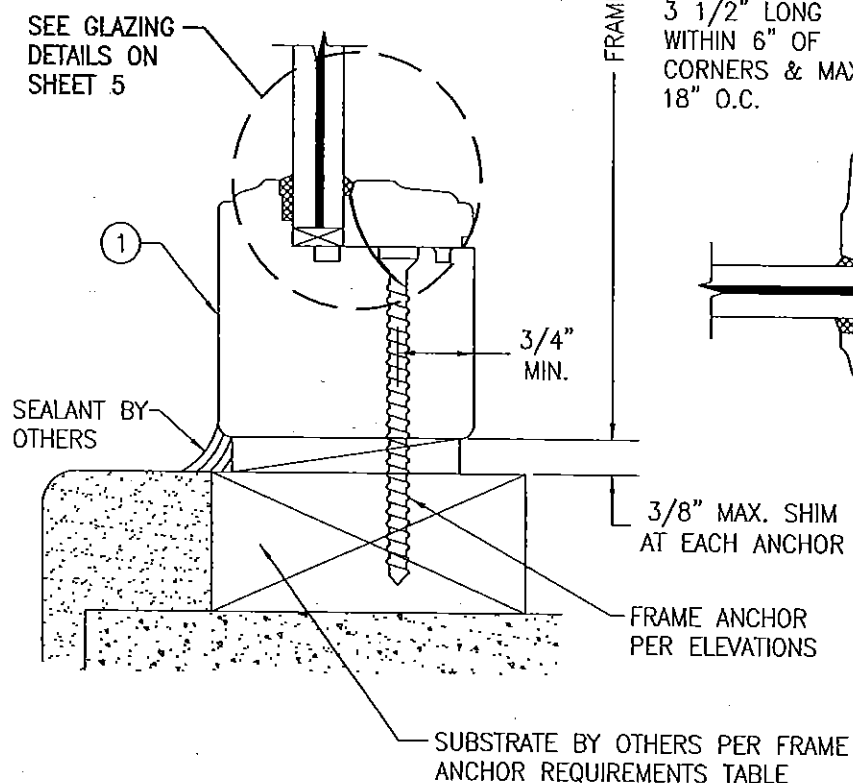
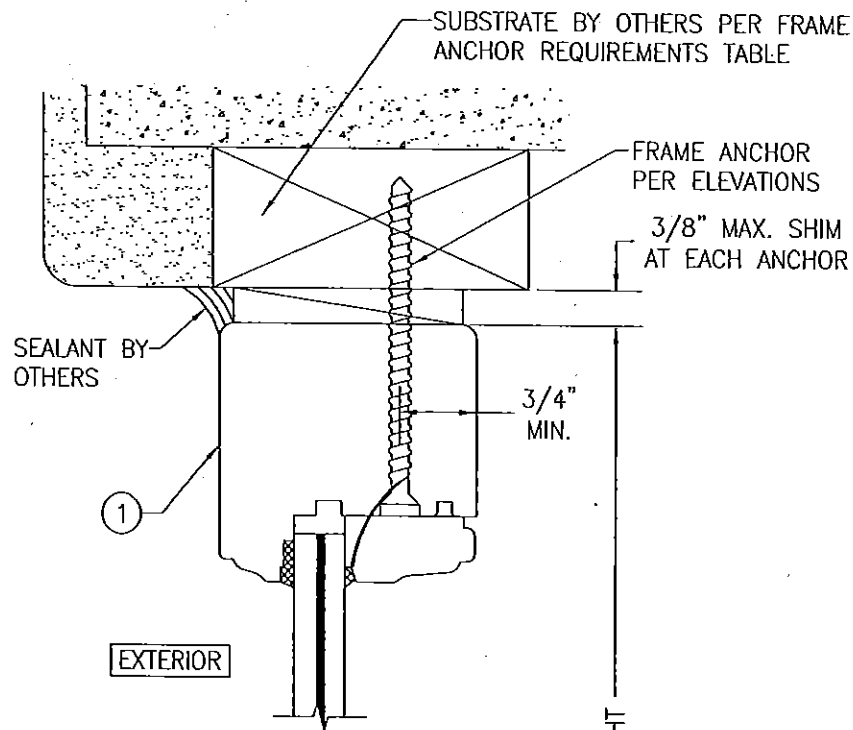
#### MULTIPLE UNIT NOTES:

1. ALL WINDOWS ARE RESTRICTED BY THE DIMENSIONS SPECIFIED.
2. THE MAXIMUM ALLOWABLE PRESSURE FOR A COMBINED UNIT IS RESTRICTED BY THE LESSER OF THE INDIVIDUAL WINDOW ALLOWABLE PRESSURE OR THE ALLOWABLE MULLION PRESSURE. SEE LOAD TABLES ON SHEET 1 & 2.
3. WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. (IF VERTICALLY STACKED, MANUFACTURER MUST INSURE THAT THE DEAD WEIGHT OF THE WINDOWS DOES NOT CAUSE ANY WINDOW FAILURES OR DEFORMATIONS)
4. NUMBER OF WINDOWS IN ONE OPENING IS NOT RESTRICTED PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0428.15  
Expiration Date 12/27/2017  
By Miami Dade Product Control

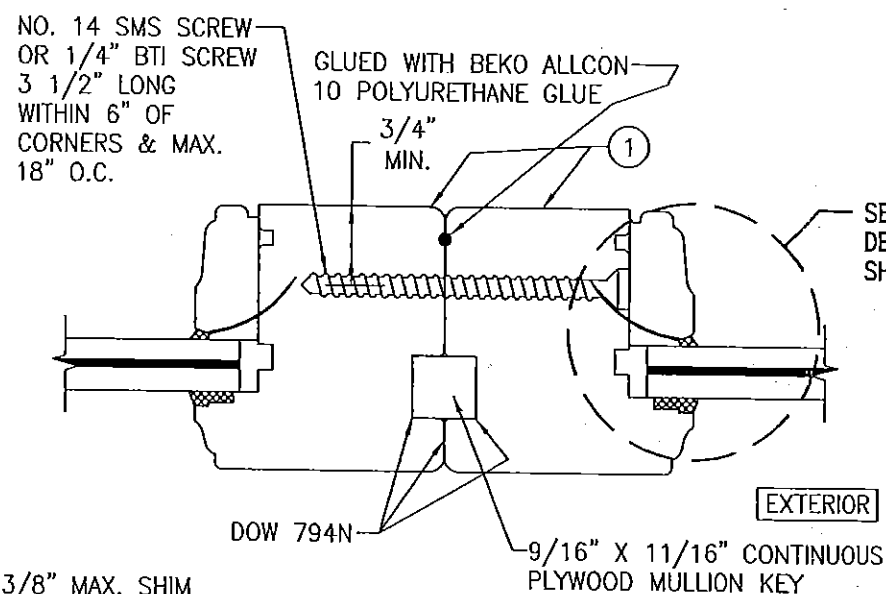


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 1/24/07	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: DIRECT GLAZED FIXED IMPACT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: TISCHLER UND SOHN (USA) LTD.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600	
CERTIFICATION: SEP 05 2012		P.E. NO. 44135	
DRAWING NO. 1514		REV. A	
SHEET NO. 2		OF 6	

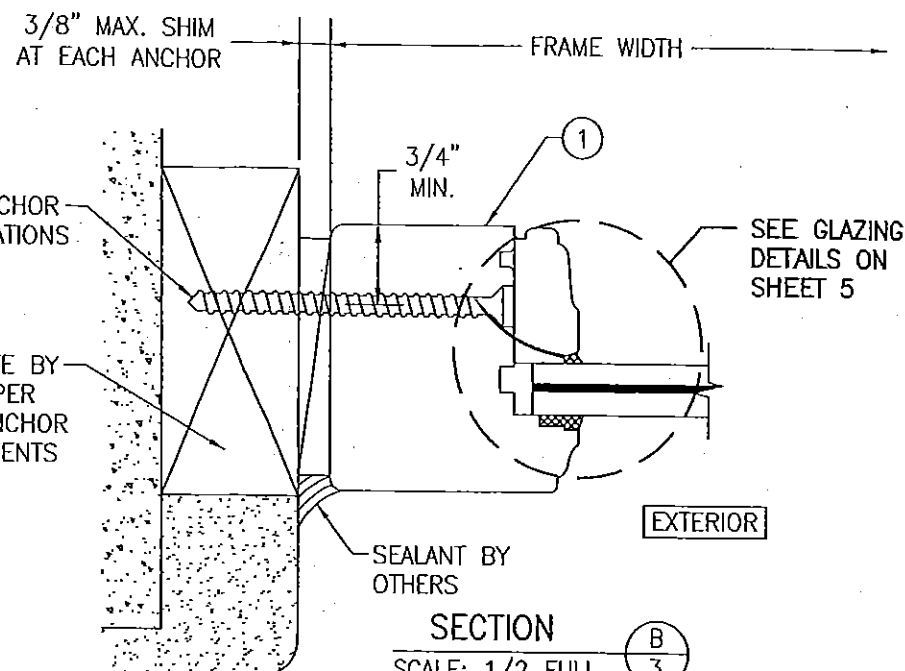


SECTION A  
SCALE: 1/2 FULL

FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.

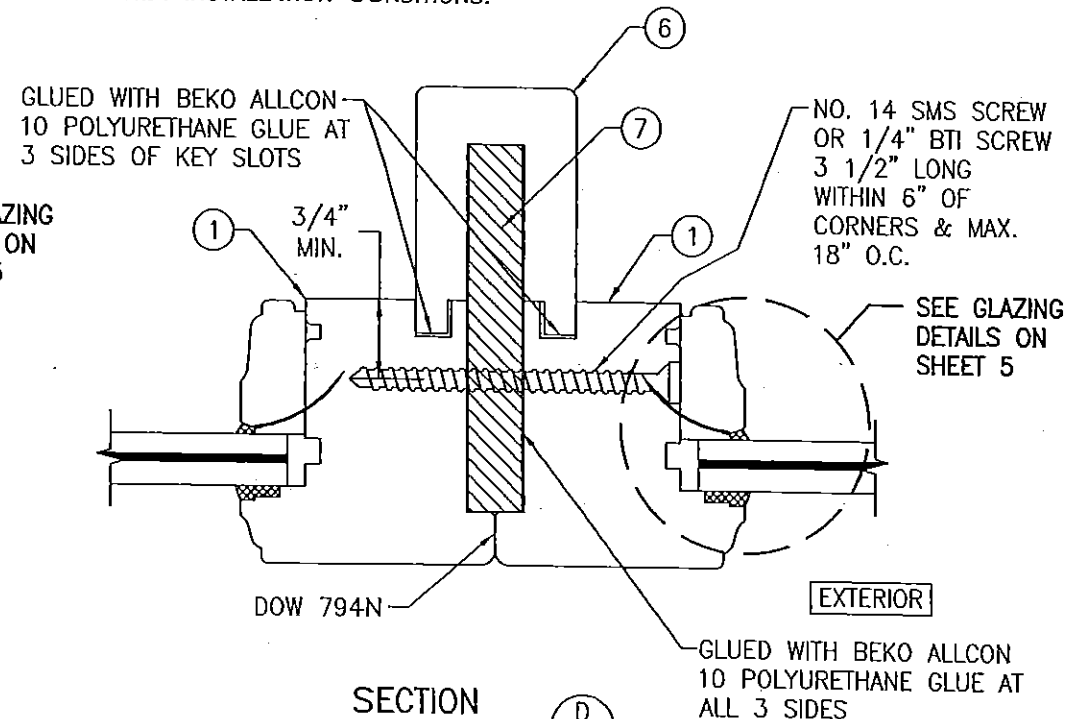


SECTION C  
SCALE: 1/2 FULL



SECTION D  
SCALE: 1/2 FULL

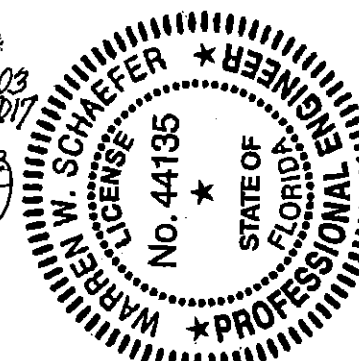
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



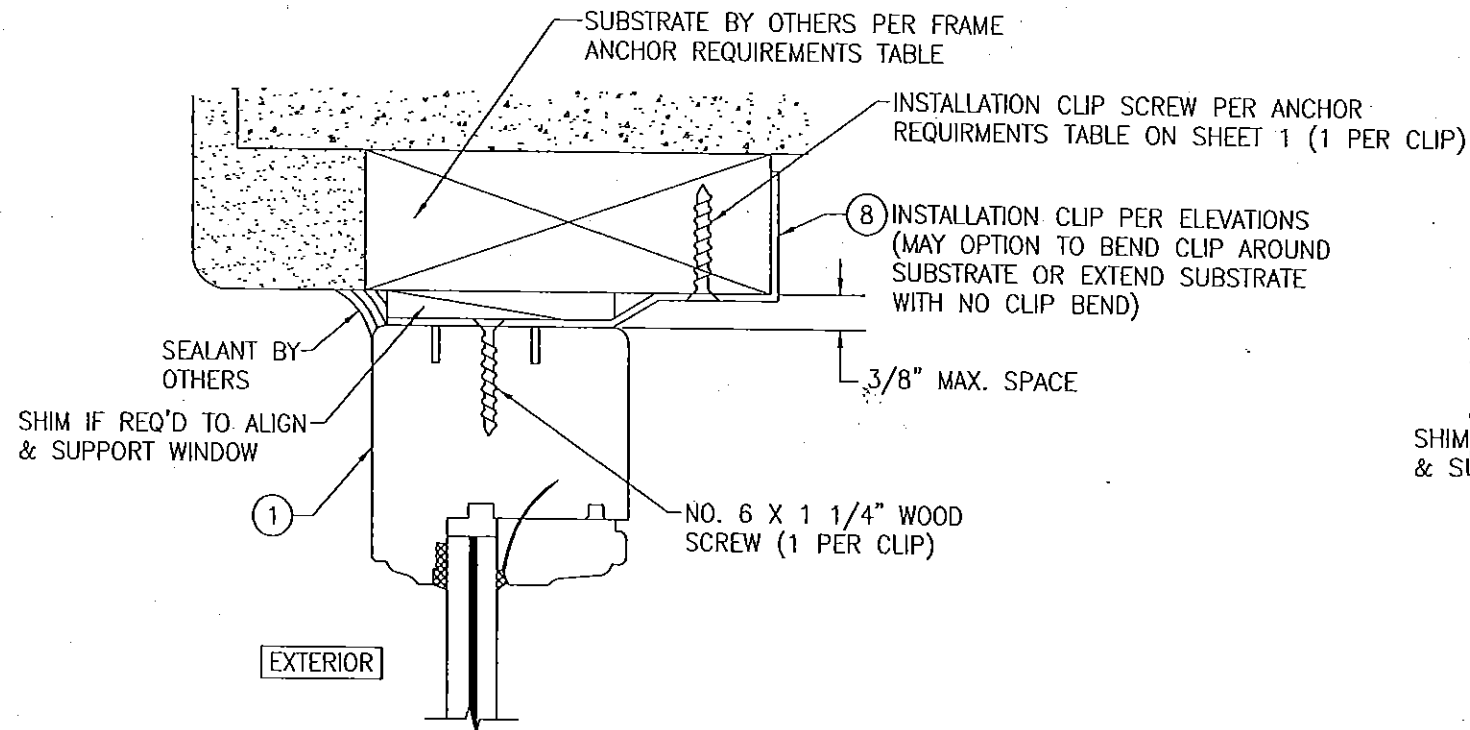
SECTION E  
SCALE: 1/2 FULL

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0906-03  
Expiration Date Dec. 27, 2017  
By *Manuel Perez*  
Miami Dade Product Control

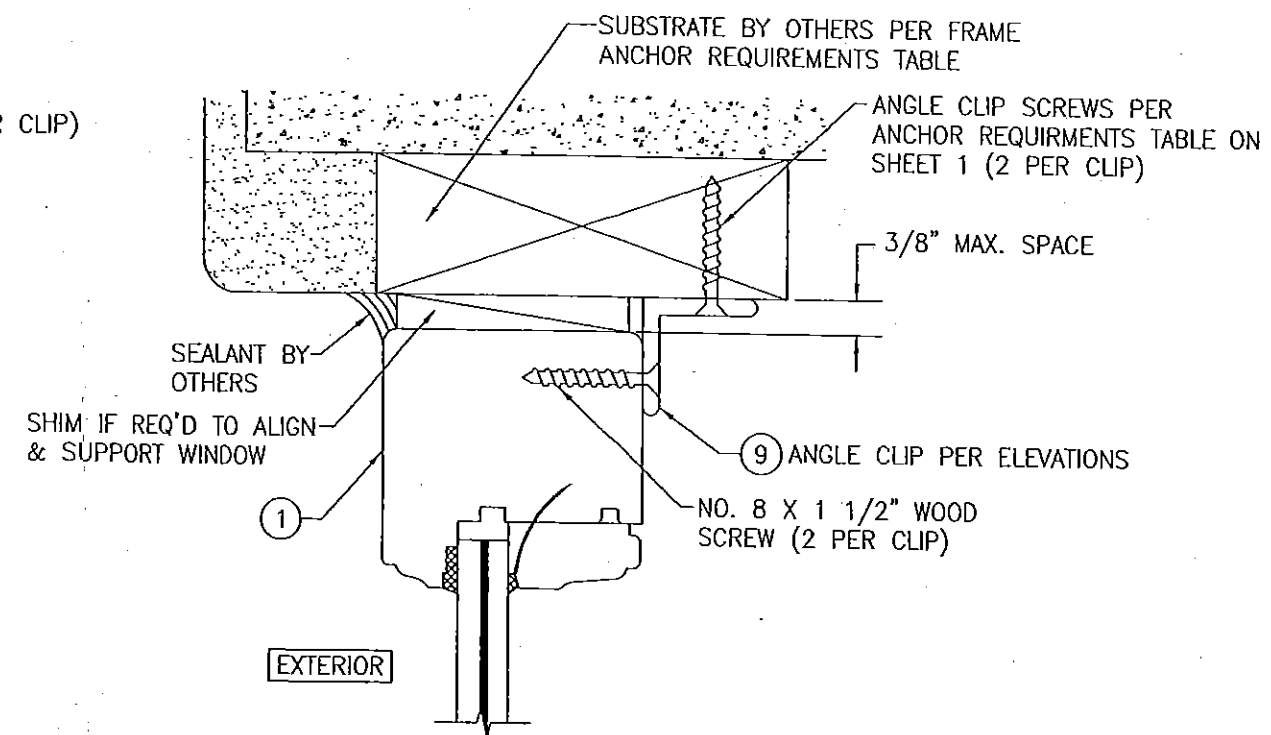
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0428.15  
Expiration Date 12/27/2017  
By *Manuel Perez*  
Miami Dade Product Control



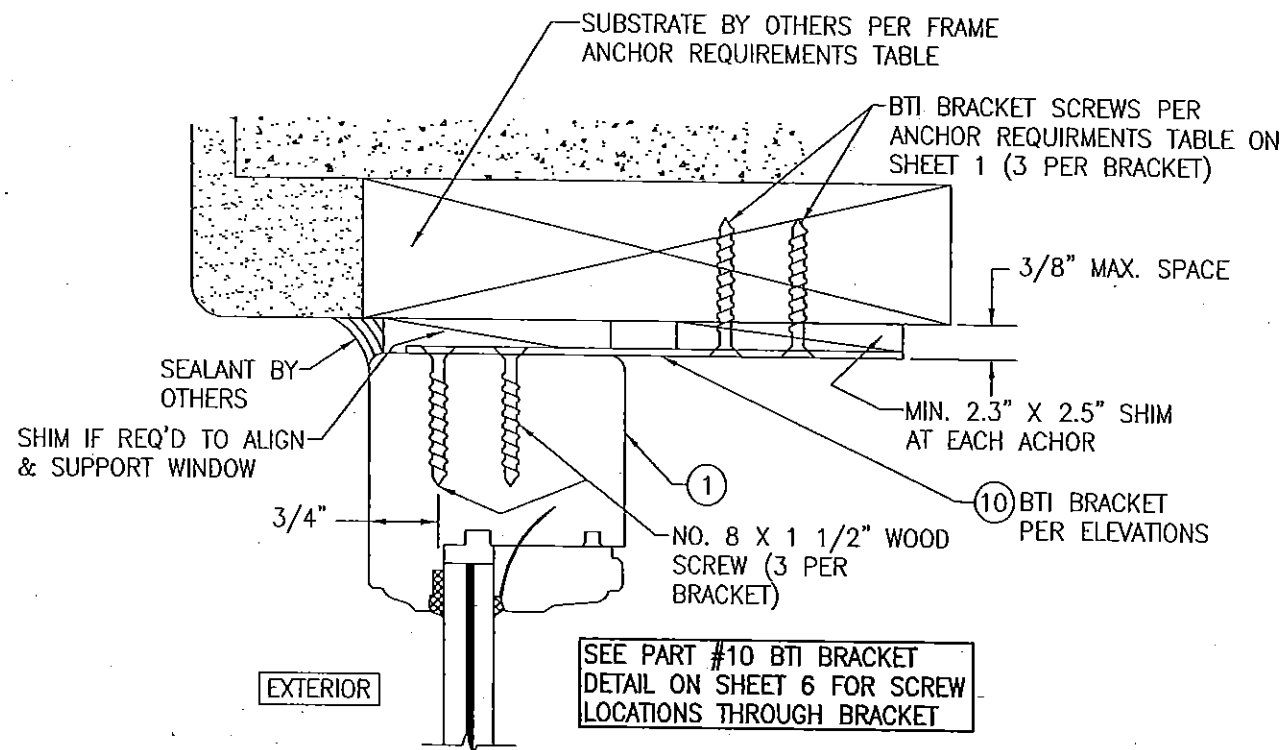
DRAWING TITLE		DIRECT GLAZED FIXED IMPACT WINDOW	
DRAWING NO.		1514	
SHEET NO.		3 OF 6	
REV.		A	
DATE		SEP 05 2012	
BY		WARREN W. SCHAEFFER, P.E.	
CHECKED BY		W.W.S.	
DATE		01/24/07	
PLOT		1-2	
DRAWN BY		W.R.M.	
REVISION DESCRIPTION			
NO.			
MANUFACTURER		TISCHLER UND SOHN (USA) LTD.	
CONSULTANTS		W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)	
		SIX SUBURBAN AVENUE	
		STAMFORD, CONNECTICUT	
		203-674-0600	
		7480 150TH COURT NORTH	
		PALM BEACH GARDENS, FL 33418	
		PHONE: 561-744-3424	



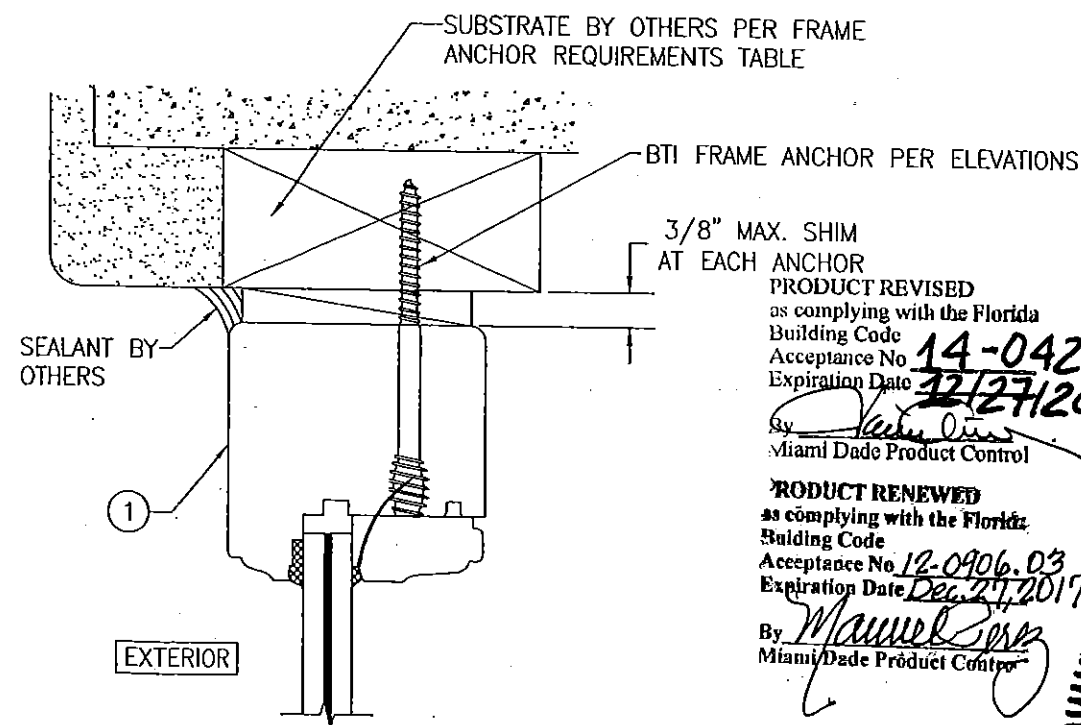
**OPTIONAL INSTALLATION CLIP DETAIL**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**OPTIONAL INSTALLATION ANGLE CLIP DETAIL**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



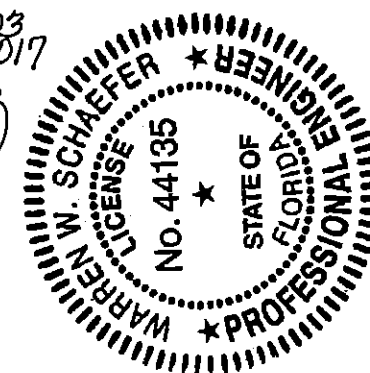
**OPTIONAL INSTALLATION BTI BRACKET DETAIL**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**OPTIONAL BTI SCREW DETAIL**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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Building Code  
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Expiration Date Dec 27, 2017  
By *[Signature]*  
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/24/07	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: DIRECT GLAZED FIXED IMPACT WINDOW			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION	SEP 05 2012	WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.		
1514	A		
SHEET NO.			
4	OF 6		

SEALANT BY OTHERS

1

FRAME ELEV. ANCH. TABL

EXTERIOR

SEALANT BY  
OTHERS

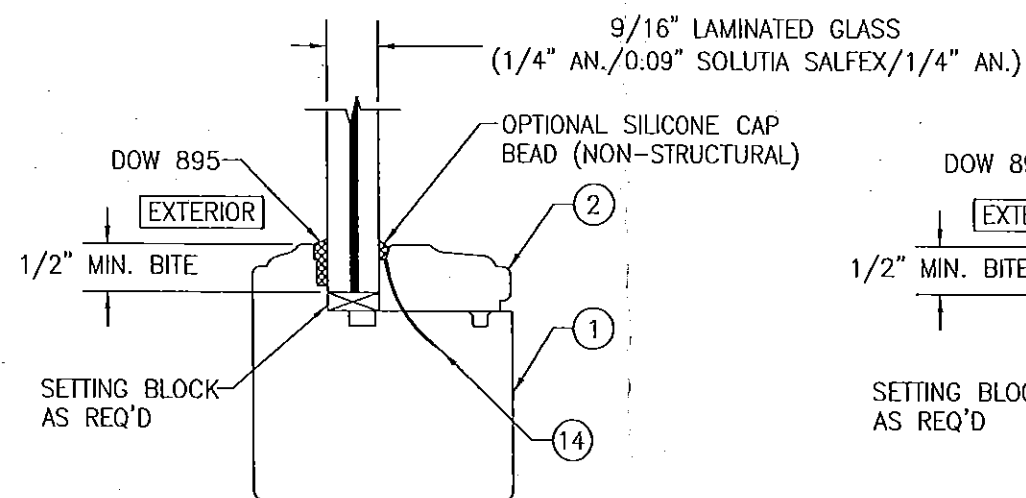
-FRAME SCREW PER  
ELEVATIONS & "FRAME  
ANCHOR REQUIREMENTS  
TABLE" ON SHEET 1

EXTERIOR

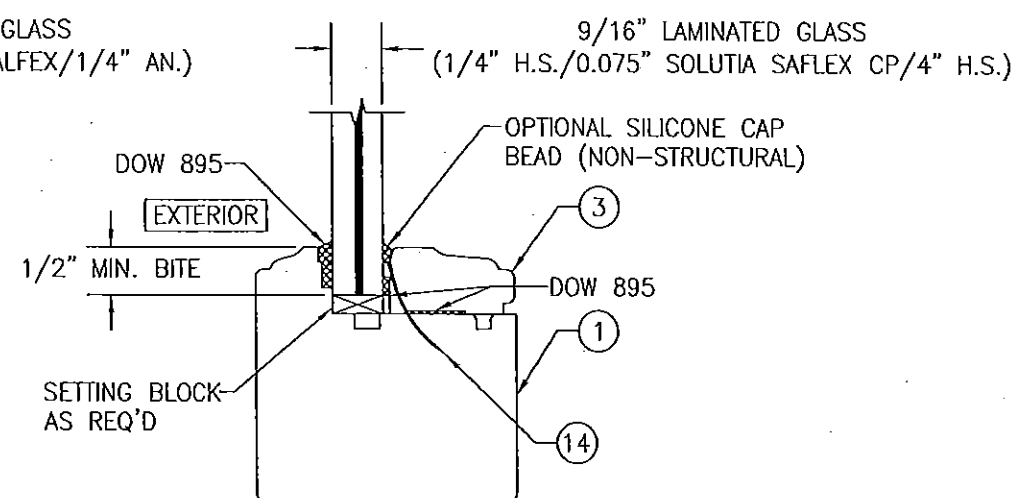
### OPTIONAL DIRECT MOUNT DETAIL

TO BLOCK OR CONCRETE WITH SPACER OR SHIM

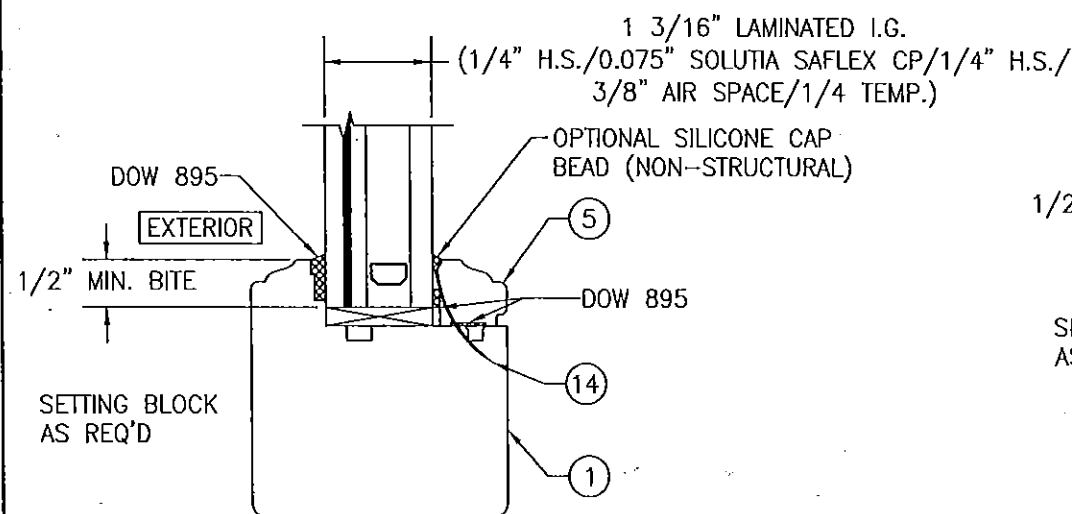
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



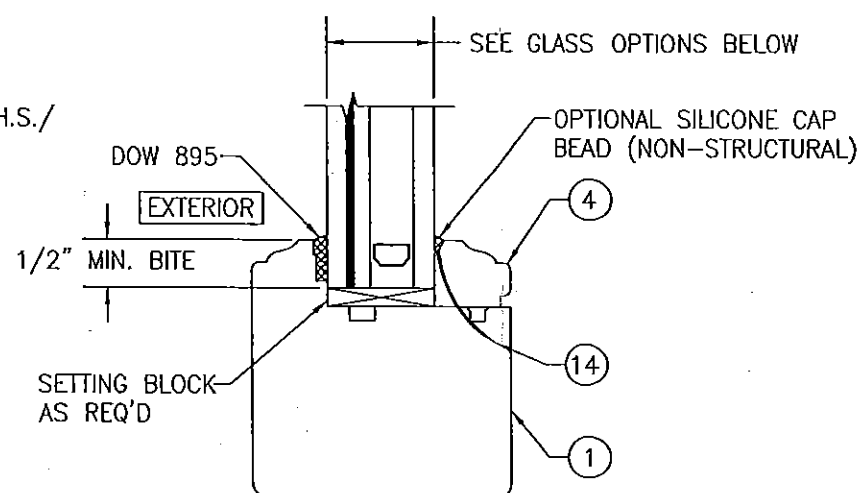
NON-I.G. GLAZING DETAIL  
GLASS OPTION 1



NON-I.G. GLAZING DETAIL  
GLASS OPTION 2



I.G. GLAZING DETAIL  
GLASS OPTION 3



I.G. GLAZING DETAIL  
GLASS OPTIONS 4 &

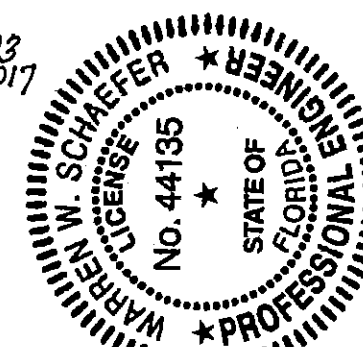
GLASS OPTION 4: 1 3/16" LAMINATED I.G.  
(3/16" AN./0.09" SOLUTIA Salfex/3/16"  
AN./1/2" AIR SPACE/1/4 AN.)

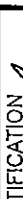
GLASS OPTION 5: 1 3/16" LAMINATED I.G.  
(3/16" AN./0.09" SOLUTIA Salfex/3/16"  
AN./1/2" AIR SPACE/1/4 TEMP.)

**NOTE: THE SINGLE PANE OF THE IG GLASS SHALL BE TEMPERED WHEN REQUIRED TO CONFORM WITH SECTION 2406.3 OF THE FLORIDA BUILDING CODE FOR USE OF GLASS IN HAZARDOUS LOCATIONS.**

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Expiration Date 12/27  
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as complying with the Florida  
Building Code  
Acceptance No. 12-0906-03  
Expiration Date Dec. 27, 2017  
By Manuel Perez  
Miami Trade Product Control

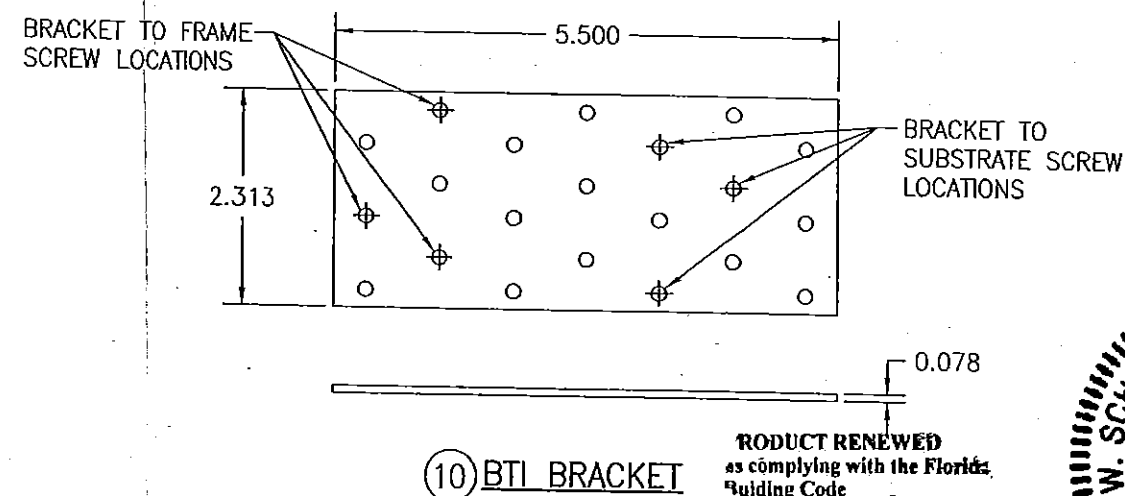
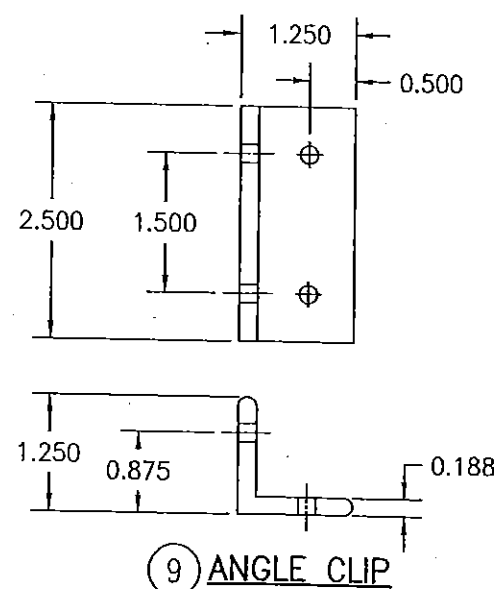
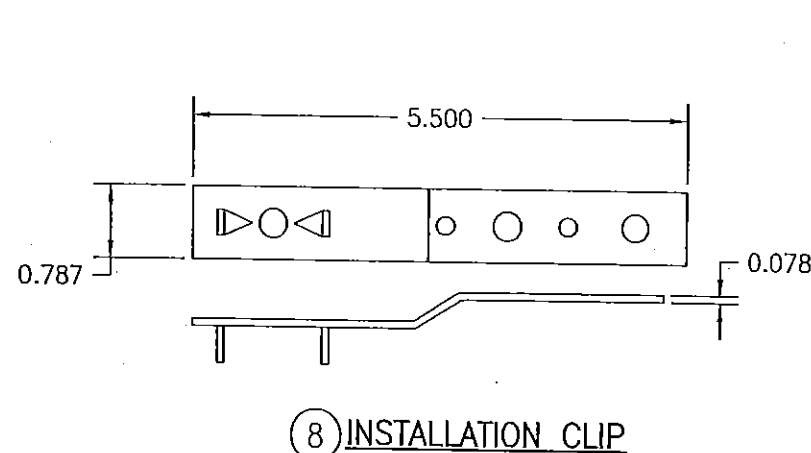
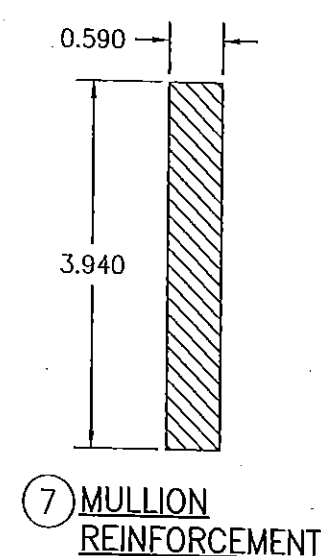
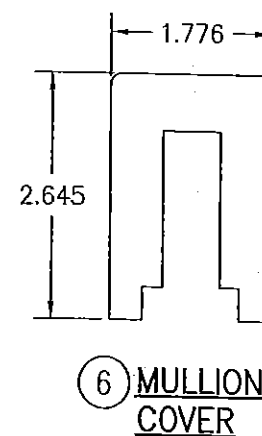
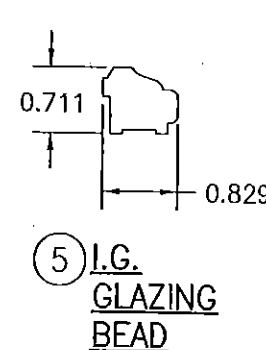
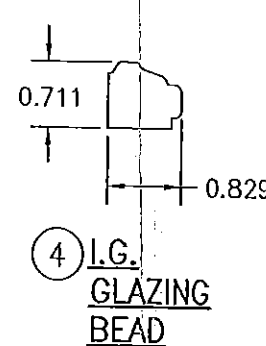
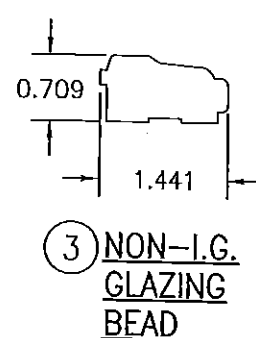
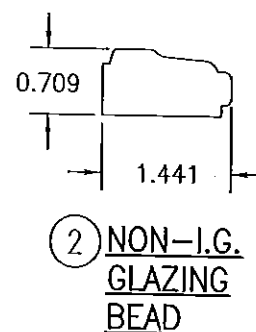
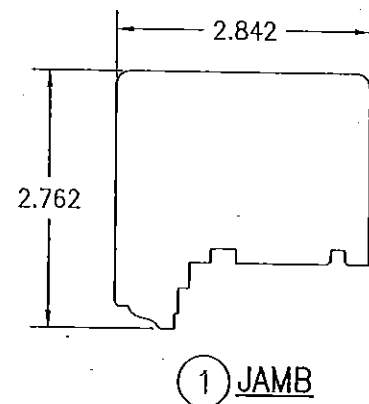


DRAWING NO. <b>1514</b>	REV. <b>A</b>	SHEET NO. <b>5</b> OF <b>6</b>	CERTIFICATION  <b>SEP 05 2012</b> WARREN W. SCHAEFER, P.E.	DRAWING TITLE <b>DIRECT GLAZED FIXED IMPACT WINDOW</b>	CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER <b>TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600</b>	NO.          	REVISION DESCRIPTION          	BY          	DATE          	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
											PLOT: 1=2	DATE: 01/24/07



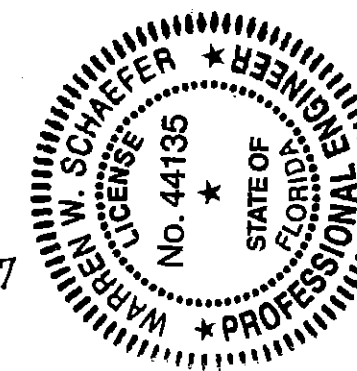
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB	MAHOGANY
2	NON-I.G. GLAZING BEAD	MAHOGANY
3	NON-I.G. GLAZING BEAD	MAHOGANY
4	I.G. GLAZING BEAD	MAHOGANY
5	I.G. GLAZING BEAD	MAHOGANY
6	MULLION COVER	MAHOGANY
7	MULLION REINFORCEMENT	34 KSI STAINLESS STEEL
8	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL
9	ANGLE CLIP	6061-T6 ALUMINUM
10	BTI BRACKET	GALVANIZED 54 KSI STEEL
FASTENERS		
14	OPTIONAL 18 GA. X 1 1/2" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.

NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF  $G = 0.62$  AND A MODULUS OF ELASTICITY OF  $E = 1,600,000$  PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.



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Miami Dade Product Control

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as complying with the Florida  
Building Code  
Acceptance No. 12-0906.03  
Expiration Date Dec 21, 2017  
By *Manuel Perez*  
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/24/07	
NO.	DATE	BY	REVISION DESCRIPTION
DRAWING TITLE: DIRECT GLAZED FIXED IMPACT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: TISCHLER UND SOHN (USA) LTD.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600	
CERTIFICATION: SEP 06 2012		DRAWING NO. 1514	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		REV. A	
		SHEET NO. 6 OF 6	